TURBA, L.N.

Tentative method for determining bilirubin in children. Lab.delo 2 no.6:26 N-D '56. (MLRA 9:12)

1. Iz Novosibirskoy 4-y infektsionnoy bol'nitsy.
(BILIRUBIN)

TURBA, L.N.

TURBA, L.N.

Two cases of coccidiosis in man. Med.paraz. i paraz.bol.supplement to no.1:62 '57. (MIRA 11:1)

1. Iz kliniki infektsionnykh bolezney Novosibirskogo meditsinskogo instituta.
(NOVOSIBIRSK--COCCIDIOSIS)

TURBABO, K.

Toward summer starts. Za rul. 21 no.5:26 My '63. (MIRA 16:9)

1. Otvetstvennyy sekretar' komiteta avtomodel'nogo sporta Federatsii avtomobil'nogo sporta SSSR.
(Automobiles—Models)

TURBABO, K.

New norms for automobile-model races. Za rul. 20 no.12:24 D '62. (MIRA 15:12)

1. Otvetstvennyy sekretar' Komiteta avtomodel'nogo sporta Federatsii avtomobil'nogo sporta SSSR.
(Automobiles--Models)

PONOMAREV, A.N.; TURBACHEVA, T.P.

Explosive and stepwise flowering of grasses. Dokl. AN SSSR 146 no.6:1437-1440 O '62. (MIRA 15:10)

1. Permskiy gosudarstvennyy universitet im. A.M. Gor'kogo. Predstavleno akademikom V.N. Sukachevym.
(Grasses) (Plants, Flowering of)

GAVRILENKO, Ivan Il'ich; TURBAKOV, A.A., nauchn. red.; GORYANSKIY, Yu.V., inzh., red.izd-va; KOTLYAKOVA, O.I., tekhn. red.

[Radio transmitting devices] Radioperedaiushchie ustroistva. Leningrad, Izd-vo "Morskoi transport," 1963. 412 p. (MIRA 17:1)

TURBAKOV, A.A.; ANDREYEVA, L.S., red.

[Electrical engineering and the electrical equipment of ships] Elektrotekhnika i elektrooborudovanie sudov. Moskva, Transport, 1965. 446 p. (MIRA 18:9)

BOBROV, A.I.; TURBANOVA, A.D.; POPOV, B.Ye.; CHEREPANOV, V.N.; KHORSHEV, V.M.

Acid sulfite pulping by the use of a magnesium base. Bum. prom. no. 2:5-8 F '64. (MIRA 17:3)

1. Moskovskiy filial Vsesoyuznogo nauchno-issledvoatel'skogo institute tsellyulozno-bumazhnoy promyshlennosti (for Bobrov, Turbanova).
2. Visherskiy kombinat (for Popov, Cherepanov, Khorshev).

BOBROV, A.I.; TURBANOVA, A.D.

Cooking spruce pulp with magnesium bisulfite at the increased temperature. Bum. prom. 36 no.10:4-5 O '61. (MIRA 15:1)

1. Moskovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta tsellyulozno-bumazhnoy promyshlennosti.
(Magnesium sulfite)
(Woodpulp)

PORFIR'YEVA, Yu.I.; TURBANOVA, Ye.S.; PETROV, A.A.

Regularities in addition reactions of diacetylenes. Part 4: Addition of bromine and mercaptans to disubstituted diacetylenes. Zhur. ob. khim. 34 no.12:3966-3974 D '64 (MIRA 18:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

TURBATU-BILCIURESCU, S.

Linear functionals on certain pseudonormalized regulated spaces. Comunicarile AR 12 no.3:265-268 Mr '62.

1. Comunicare prezentata de Al. Ghika, membru corespondent al Academiei R.P.R.

TURBATU, C., ing.; BURCHE, I., ing.

Improving the manufacturing technology of dies for tire vulcanization. Constr mas 15 no.11/12:773-778 N-D '63.

USSR/Human and Animal Physiology - (Normal and Pathological). T
Digestion. The Stomach.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17566

Author : Turbayev, Peysen
Inst : -
Title : On the Dependence of Interoceptive Reflex Properties on the Type of Feeding in Goats in Onthogenesis. Report I. Change of Mechanoreception of Rumen.

Orig Pub : V sb.: Vopr. fisiol. s.-kh. zhivotnykh. M.-L., AN SSSR, 1957, 220-225

Abstract : No abstract.

Card 1/1

TURBAYEVSKIY, S.N., inzh.; PRESSMAN, I.G., inzh.

Work quality control. Energ.stroi. no.23:95-101 '61. (MIRA 15:1)
(Hydraulic structures--Quality control)
(Kremenchug Hydroelectric Power Station--Design and construction)

TURBAYEVSKAYA, N.K.

Evaluation of the agrometeorological conditions of growing winter wheat in the period of flower and grain formation on the ear of the main stalk in areas of the southeastern U.S.S.R. and the southern Ukraine where there is insufficient soil moisture. Trudy TSIP no.101:113-116 '62. (MIRA 15:9)
(Russia, Southern--Plants, effect of soil moisture on)
(Wheat)

USSR/Medicine - Influenza, Prevention
Medicine - Antibiotics

Sep 46

"Experimental Application of Antibiotics as a Prophylaxis Against Grippe," I. I. Yolkin, A .I. Belyayeva, K. Rubtsova, M. L. Turich, S. I. Lydel'shteyn, Inst Biol Prophylaxis of Infections, 1½ pp

"Sov Med" No 9

Use of Lysozyme produced positive results. States that treatment must be started during initial stage of disease. Use of native streptomycin and eryomrin under similar circumstances did not give satisfactory results.

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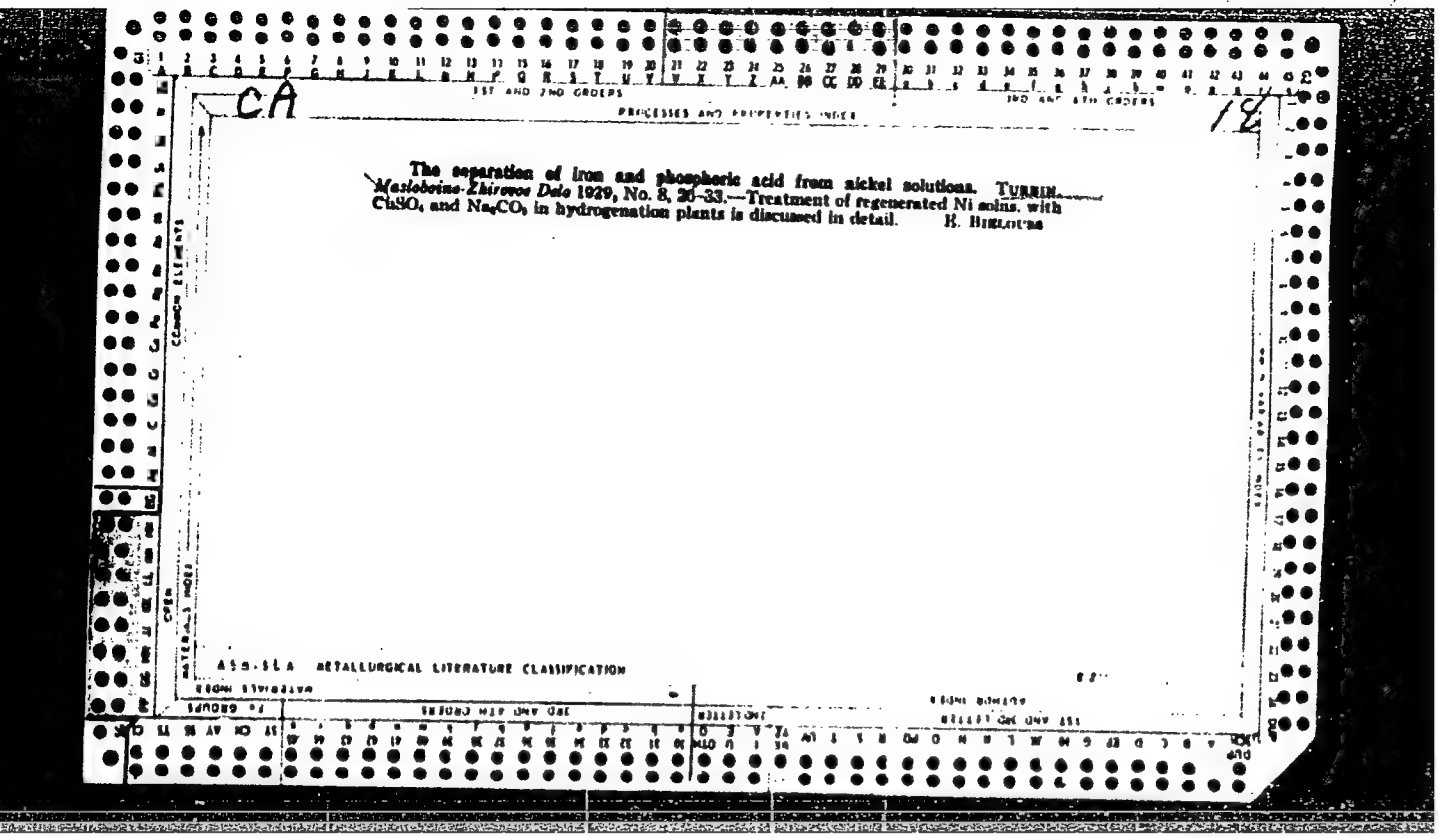

CA

12

The separation of iron and phosphoric acid from nickel solutions. TURRIN. *Maslobeino-Zhirovoe Delo* 1929, No. 8, 30–33.—Treatment of regenerated Ni solns. with $CaSO_4$ and Na_2CO_3 in hydrogenation plants is discussed in detail. B. BIBLIOGRAPHY

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Mast. ugl. 4 no.2:13-14 F '55. (MLRA 8:6)
(Ural Mountain region--Coal mines and mining)

TURBIN, A.

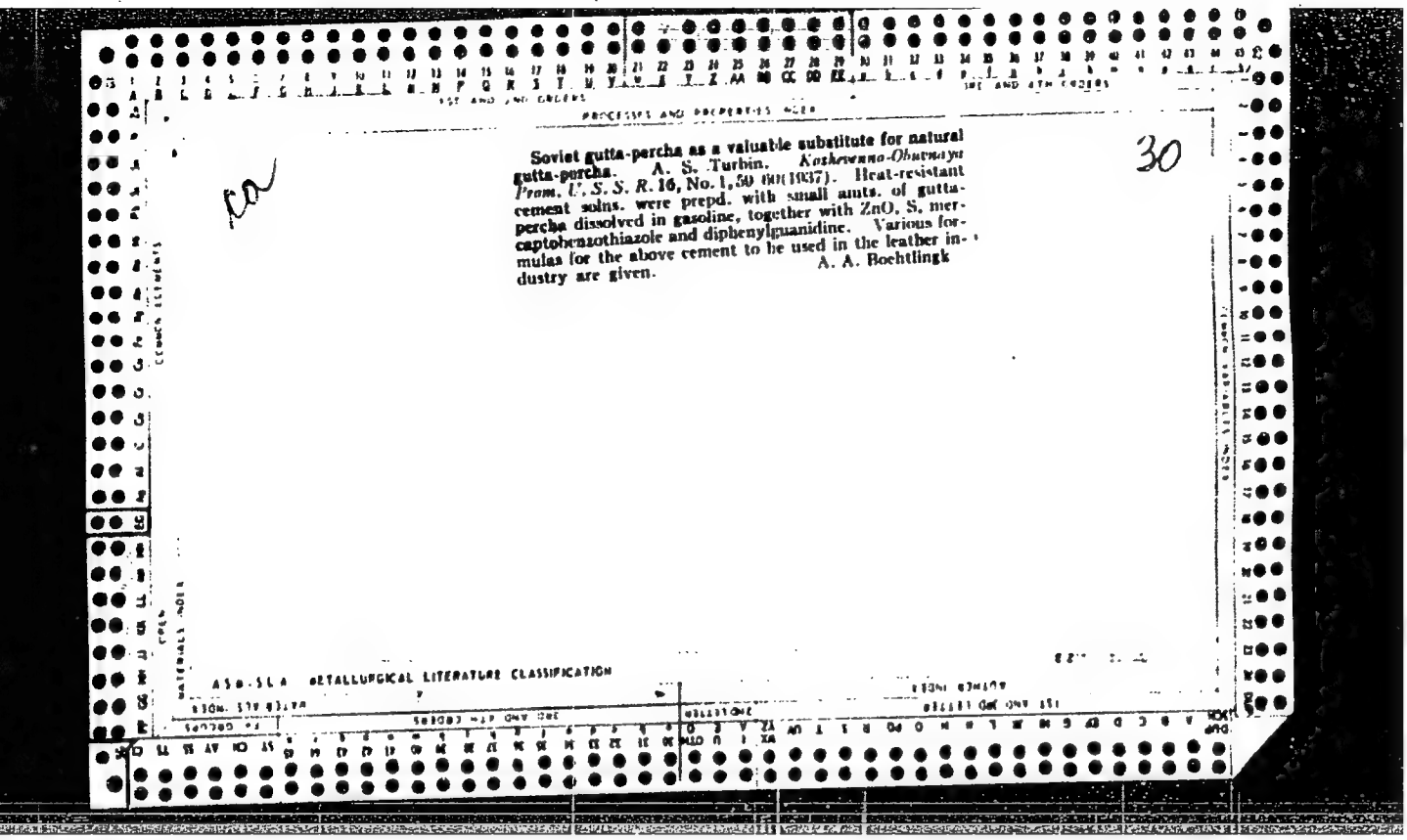
Human being, scholar, and physician. Nauka i zhizn' 28 no.10:76-80 '61. (MIRA 15:1)
(Konovalov, Nikolai Vasil'evich, 1900-)
(Hepatolenticular degeneration)

KOTEL'NIKOV, V.N., kand.tekhn.nauk; CHENTSOVA, K.I., kand.tekhn.nauk; ZYBIN, Yu.P., doktor tekhn.nauk; KOCHETKOVA, T.S.; ZAKATOVA, N.D., kand.tekhn.nauk; GUBAREV, A.S., kand.tekhn.nauk; SHVETSOVA, T.P., inzh.; VOROB'YEVA, A.A., kand.tekhn.nauk; MIRSKIY, V.I., inzh.; NISNEVICH, Ye.A., kand.tekhn.nauk; GOL'DSHTEYN, A.V., inzh.; KALASHNIKOVA, T.A., inzh.; SHUSTOROVICH, M.L., kand.tekhn.nauk; MOREKHODOV, G.A., inzh.; ZAKHAROV, S.R., retsenzent; BLAGOVESTOV, B.K., retsenzent; STRONGINA, O.P., retsenzent; SHMIDT, M.I., retsenzent; ZUYEV, V.T., retsenzent; KOSAREV, M.I., retsenzent; STEPANOV, I.S., retsenzent; RAMM, S.N., retsenzent; PEVZNER, B.M., retsenzent; VEYNBERG, I.A., retsenzent; TURBIN, A.S., retsenzent, SMIRNOVA, Ye.V., retsenzent; BUGOSLAVSKAYA, L.A., retsenzent; GAMOVA, A.S., retsenzent; KHANIN, N.M., retsenzent; MURVANIDZE, D.S., red.; PLEMYANNIKOV, M.N., red.; GRACHEVA, A.V., red.; MEDVEDEV, L.Ya., tekhn.red.

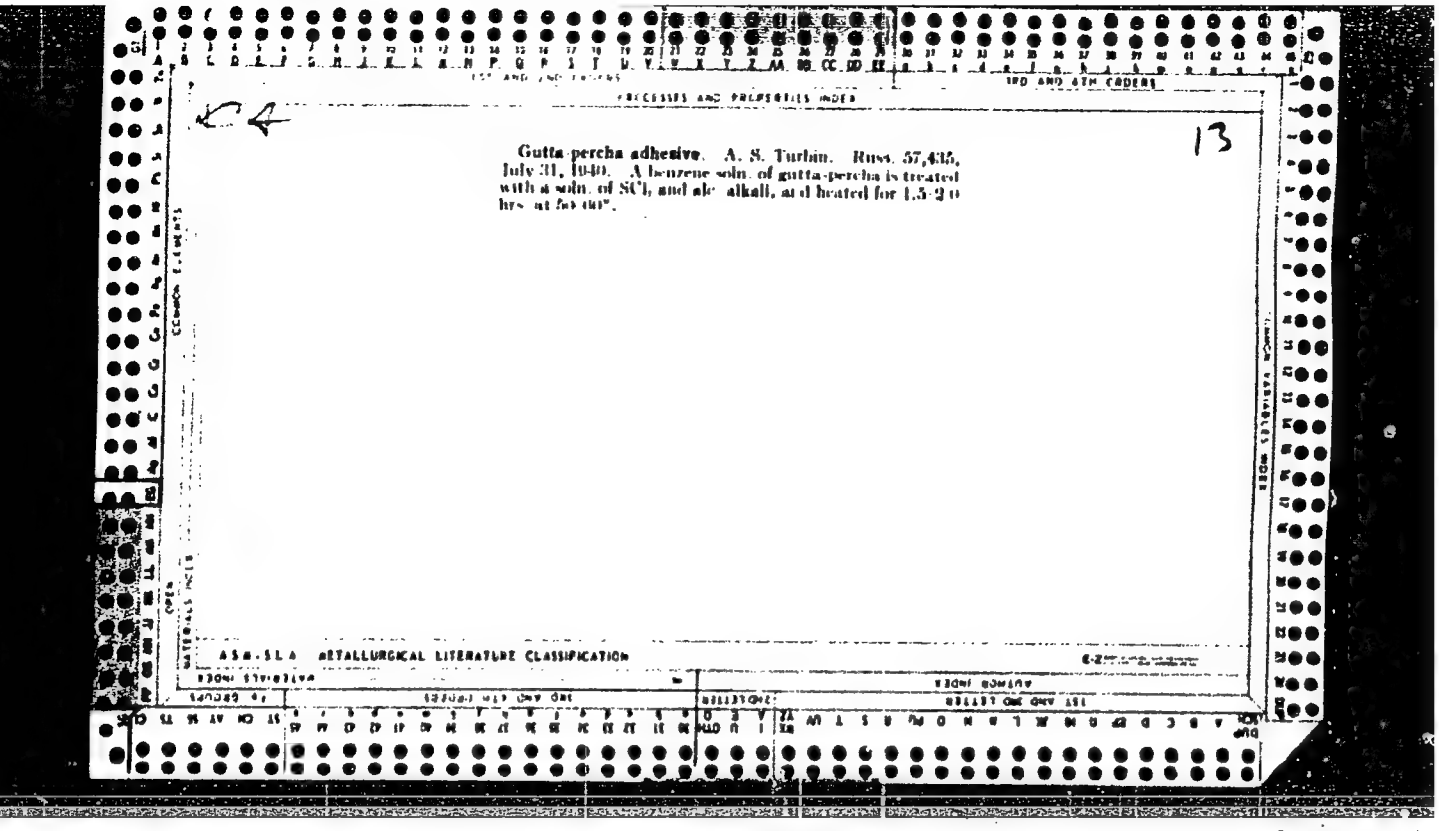
[Shoemaker's handbook] Spravochnik obuvshchika. Vol.1. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl. 1958. 540 p. (MIRA 12:4)

1.Gosudarstvennaya Ordena Lenina i Ordena Trudovogo Krasnogo Znameni obuvnaya fabrika "Skorokhod" imeni Ya.Kalinina (for Zakharov, Blagovestov, Strongina, Shmidt, Zuyev, Kosarev, Stepanov, Ramm, Pevzner, Veynberg, Turbin, Smirnova, Bugoslavskaya, Gamova, Khanin).

(Shoe manufacture)



Soviet gutta-percha as a valuable substitute for natural gutta-percha. A. S. Turbin. *Koshevenno-Obuvnaya Prom., U. S. S. R.* 16, No. 1, 50-60 (1937). Heat-resistant cement solns. were prepd. with small amts. of gutta-percha dissolved in gasoline, together with ZnO, S, mercaptobenzothiazole and diphenylguanidine. Various formulas for the above cement to be used in the leather industry are given. A. A. Boehtlingk



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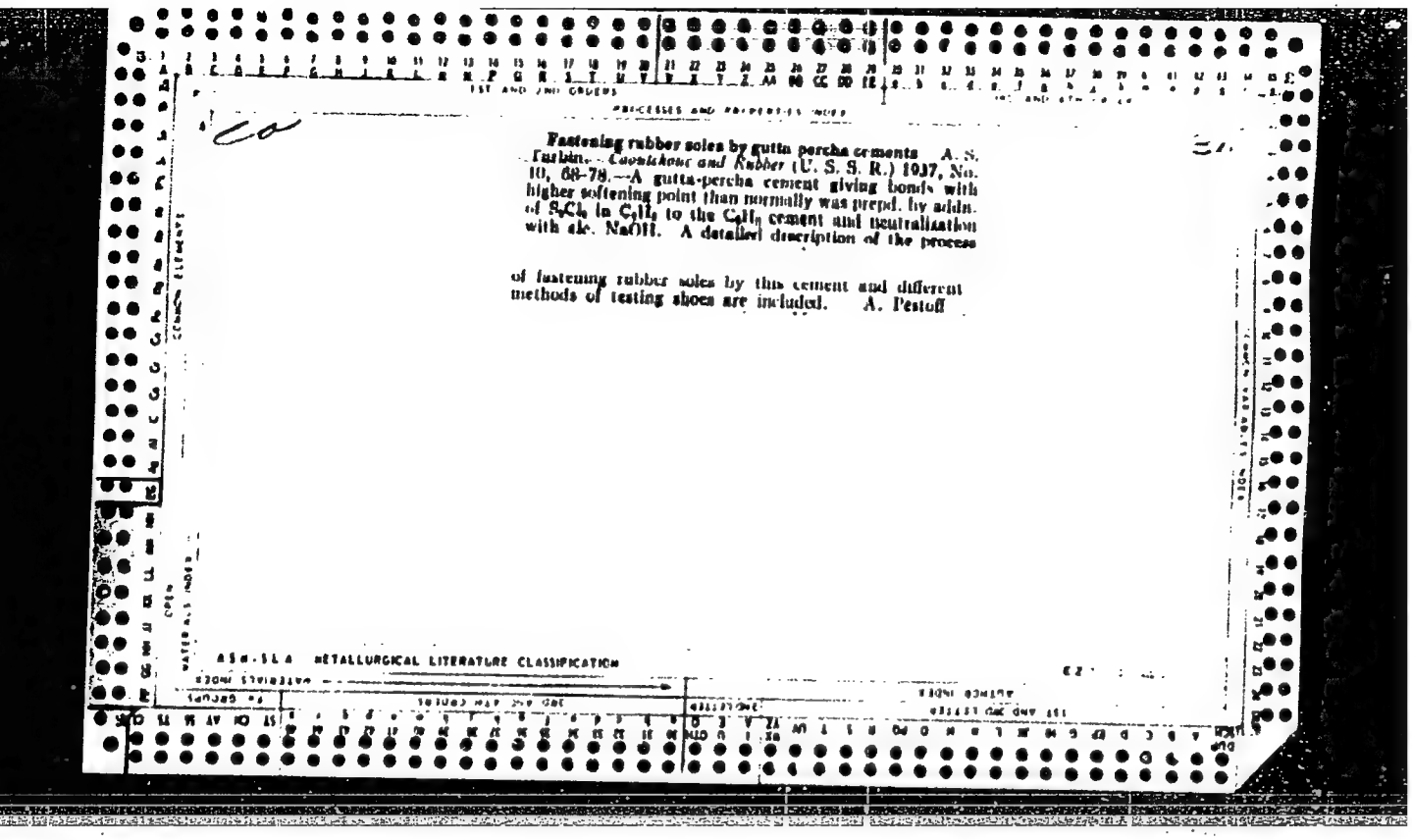
13

Gutta-percha adhesive. A. S. Turbin. Russ. 57,435, July 31, 1940. A benzene soln. of gutta-percha is treated with a soln. of SCl_2 and alc. alkali, and heated for 1.5–2 o hrs. at 5o–60°.



Fastening rubber soles by gutta percha cements A. S. Turbin. *Caoutchouc and Rubber* (U. S. S. R.) 1937, No. 10, 68–78.—A gutta-percha cement giving bonds with higher softening point than normally was prepd. by addn. of S_2Cl_2 in C_6H_6 to the C_6H_6 cement and neutralization with alc. NaOH. A detailed description of the process of fastening rubber soles by this cement and different methods of testing shoes are included. A. Pestoff

TURBIN, A.Ye.

Council of public inspectors. Put' i put. khoz. 9 no.3:13 '65.
(MIRA 18:6)

1. Predsedatel' soveta obshchestvennykh inspektorov po bezopasnosti dvizheniya, stantsiya Zilovo, Zabaykal'skoy dorogi.

TURBIN, A.Ye.

Lagging section will become foremost. Put' i put.khoz. 5 no.4:9 Ap '61. (MIRA 14:7)

1. Starshiy inzh. distantsii puti, st. Zilovo, Zabaykal'skoy dorogi.
(Railroads—Employees)

TURBIN, B.

7727. TURBIN, B. SEL'SKOKHOZYAYSTVENNYYE MASHINY. (Ucheb. posobiye dlya shkol mekhanizatsii i remesl. shkol mekhanizatsii sel'skogo khozyaystva). riga, latgosizdat, 1954. 271 s. s ill. 22 sm. 6.000 ekz. 5 R. 35 K. V per.- Na Latysh. yaz.-(55-3233) 631.3

SO: Knizhnaya Letopis', Vol. 7, 1955

BUZYKIN, V.; TURBIN, B.; CHERKASOV, I.

For a wider introduction of the piecework bonus wage system on state farms. Sots.trud 7 no.3:59-65 Mr '62. (MIRA 15:3)
(Agricultrual wages) (Piecework)

KRASSOV, I.M. (Moskva); RADOVSKIY, L.I. (Moskva); TURBIN, B.G. (Moskva)

Concerning the sensitivity of a hydraulic amplifier with a nozzle and flapper. Avtom.i telem. 23 no.4:543-545 Ap '62. (MIRA 15:4)

(Hydraulic control)

KRASSOV, I.M.; TURBIN, B.G.

Flow coefficient of a nozzle-valve throttle. Avtom. proizv. prots. no.3:130-135 '60. (MIRA 13:10)

(Hydraulic control)

KRASSOV, I.M.; TURBIN, B.G.

Hydraulic load devices. Inzh.-fiz.zhur. no.10:109-112 O '58.
(Hydraulic machinery) (MIRA 11:11)

IOFINOV, Samuil Abramovich; kandidat tekhnicheskikh nauk; TURBIN, Boris Grigor'yevich; kandidat tekhnicheskikh nauk; TSYRIN, Arkadiy Alekseyevich, kandidat tekhnicheskikh nauk; CHAPSKIY, O.U., redaktor; VODOLAGINA, S.P., tekhnicheskiy redaktor.

[Mechanization and electrification of agriculture] Mekhanizatsiia i elektrifikatsiia sel'skogo khoziaistva. Moskva, Gos.izd-vo sel'-khoz. lit-ry, 1956. 544 p.[Microfilm] (MLRA 9:6)
(Farm mechanization) (Electricity in agriculture) (Agricultural machinery)

86253
S/103/60/021/011/010/014
B019/B067

26.2190

AUTHORS: Krassov, I. M., Radovskiy, L. I., Turbin, B. G. (Moscow)

TITLE: An Approximation Determination of the Reaction of the Jet in the Hydraulic Amplifier "Nozzle - Flap"

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol. 21, No. 11, pp. 1536 - 1538

TEXT: The authors discuss the approximate calculation of the force which is formed at a flap for a liquid jet emerging from a nozzle. The reaction of the jet consists of three components: force N_1 which is formed by a change of the moved mass of liquid emerging from the nozzle; force N_2 which acts upon the cross section of the nozzle due to the liquid pressure, and force N_3 which is caused by the liquid pressure in the gap between the end of the nozzle and the flap. The reaction of the jet as a sum of these three components is:

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An Approximation Determination of the Reaction of the Jet in the Hydraulic Amplifier "Nozzle - Flap"

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$N = N_1 + N_2 + N_3 = \frac{4\varrho Q^2}{\pi d_c^2} + \frac{\pi}{6}(d_H^2/2 + d_c^3/d_H)p_c$ (8). Q denotes the liquid delivery through the nozzle, d_c the nozzle diameter, d_H the diameter of the nozzle front, and p_c the liquid pressure at the nozzle opening. The following formulas are given for the two quantities p_c and Q entering (8): $p_c = p_1 - 8\varrho Q^2/\pi^2 d_c^4 \mu_c^2$ and $Q = \mu \pi d_c h\sqrt{2p_1/\varrho}$, where p_1 pressure in the chamber between the throttles, μ_c the delivery coefficient of the nozzle without flap, μ delivery coefficient of the nozzle with flap, and h the gap between nozzle and flap. Thus N may be determined. In the experimental checking of this expression satisfactory results were obtained. There are 1 figure, 1 table, and 5 Soviet references.

SUBMITTED: April 9, 1960

Card 2/2

ACCESSION NR: AT4042451 S/0000/64/000/000/0179/0190

AUTHOR: Banshty*k, A. M.; Radovskiy, L. I.; Turbin, B. G.

TITLE: Derivation of the differential equations and a study by mathematical simulation methods of the dynamic characteristics of electrohydraulic servomechanisms

SOURCE: Vsesoyuznoye soveshchaniye po pnevmo-gidravlicheskoy avtomatike. 5th, Leningrad, 1962. Pnevmo- i gidroavtomatika (Pneumatic and hydraulic control); materialy* soveshchaniya. Moscow, Izd-vo Nauka, 1964, 179-190

TOPIC TAGS: automatic control system, automation, control system, hydraulic control system, electrohydraulic control, servomechanism, electrohydraulic servomechanism, mathematical simulation

ABSTRACT: In this paper, the author formulates the differential equations of an electrohydraulic servomechanism, taking into account the throttling effect, the hydrodynamic forces on the valve, the rate saturation, the dead zone, and the fluid compressibility. This brings the essential nonlinearities which are characteristic of hydraulic drives into consideration. The system's block diagram is derived by mathematical simulation methods, and is also set-up on a analog computer for solving the differential equations. Finally, the block diagram of the simulation system

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ACCESSION NR: AT4042451

and the results from the computer are presented. A comparison of the theoretical and experimental simulations showed that the basic responses of the system operation were correctly accounted for by the mathematical description. It is concluded that more detailed studies of the dynamic characteristics of electrohydraulic servomechanisms can be based on the block diagram derived here, and that the mathematical simulation method could be used during the design stage to improve these characteristics. Orig. art. has: 6 figures and 27 numbered equations.

ASSOCIATION: none

SUBMITTED: 29Jan64 ENCL: 00

SUB CODE: IE NO REF SOV: 007 OTHER: 000

2/2
Card

86219
S/103/60/021/012/006/007
B012/B064

16,9500(1024,1031,1132,1067)

AUTHORS: Krassov, I. M., Radovskiy, L. I., Turbin, B. G. (Moscow)

TITLE: Effect of the Characteristics of an Electric Control Element on the Selection of Parameters of a Hydraulic Amplifier

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol. 21, No. 12, pp. 1623-1626

TEXT: The present paper investigates the effect of the characteristics of an electromagnetic control element of the РЭП (REP) type (Refs. 1, 2) upon the choice of the initial pressure in the choke chamber of the hydraulic amplifier with nozzle and shutter. The basis is given for calculating this pressure, taking into account the characteristics of the control element, and equation (22) for the relative pressure in the choke chamber $\bar{p}_{1_0} = \sqrt{\alpha^2 + \alpha + 0.0625} - (\alpha - 0.25)$ is derived, where $\alpha = n_0/c$, c - a constant, $n_0 = \left|\frac{\partial M}{\partial \varphi}\right|_{\varphi=0}$, M - the moment of the control element, and

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Effect of the Characteristics of an Electric Control Element on the Selection of Parameters of a Hydraulic Amplifier

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φ - the angle of torsion of the shutter. Fig. 3 shows the dependence of pressure $\bar{p}_{1_0}$ on α. Thus, it may be seen that the relative pressure in the chamber reaches 0.75 only at high α-values. In the present electromagnetic control elements and hydraulic amplifiers with nozzle and shutter, α changes in the range of from 0.2 to 0.75, which, however, corresponds to the beginning of the curve. For this reason it is recommended to consider the effect of the control element upon the operation of the hydraulic amplifier. Formula (22) gives the possibility of determining such a pressure p_{1_0} which warrants a maximum of the pressure- (or current-) amplifying factor in dependence on the characteristics of the control element and the characteristics of the nozzle with shutter.

Legend to Fig. 1: Principal scheme of a hydraulic amplifier with nozzle and shutter: 1) choke with constant flow-passage cross-sectional area, 2) choke chamber, 3) nozzle, 4) shutter.

Legend to Fig. 3: Dependence of the relative pressure $\bar{p}_{1_0}$ on α.

86219

Effect of the Characteristics of an Electric Control Element on the Selection of Parameters of a Hydraulic Amplifier

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B012/B064

There are 3 figures and 6 Soviet references.

SUBMITTED: February 24, 1960

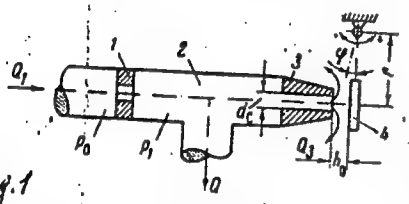

Fig.1

Рис. 1

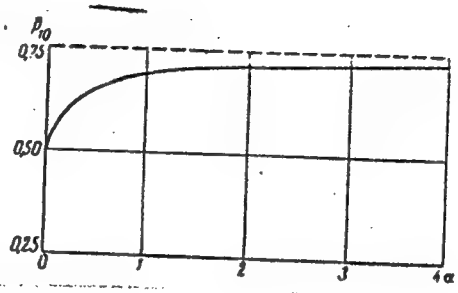

Fig.3

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Turbin, D. G.

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Academiya nauk SSSR. Sektsiya avtomatiki i telemekhaniki

Avtomatizatsiya proizvodstvennykh protsessov, vyp. 1 (Automation of Production Processes, No. 1) Moscow, 1960. 134 p. Errata slip inserted. 5,000 copies printed.

Resp. Ed.: V.A. Kotel'nikov, Professor, Doctor of Technical Sciences; Ed. of Publishing House: Ye. N. Grigor'yeva; Tech. Ed.: G.M. Gus'kova.

PURPOSE: This collection of articles is intended for scientific and engineering personnel in industry.

CONTENTS: The present (third) volume of the collection of articles "Automation of Production Processes" contains data on general problems of automation of specific industries. Problems of classification analysis as applied to the automation of discrete engineering processes and typical solutions in the automation of machines are developed; some averaged indices of capital and operational expenditure for industrial automation are considered. The effect of extended impulse pipelines on the stability of automatic-control systems containing regulators of pneumatic and hydraulic type is discussed. The theoretical and analytical methods of automatic air-conditioning for production purposes, applied to textile industry, are described. Finally, problems in the organization of training of engineering personnel in the field of automation of production processes are considered. No personalities are mentioned. There are 69 references: 59 Soviet, 4 English, 4 German, 1 French, and 1 Polish.

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7. Levitskiy, Ye.Ya. On the Training of an Engineering Staff in the Field of Automation of Production Processes 97

8. Rusanov, M.N. Automation of the Process of Freezing the Air in Industrial Year-Round Air-Conditioning Installations 102

9. Kruzhilin, G.N., and B.G. Chikhachev. Discharge Coefficients of a Re-[illegible] Back-Pressure Type Throttle 130

AVAILABLE: Library of Congress

Card 3/3

AC/mc/gmp
12-15-60

VOLKOV, Yu.I., inzh.; GAFANOVICH, A.A., kand.tekhn.nauk; GLADKOV, N.G., kand.sel'skokhoz.nauk; GORKUSHA, A.Ye., agr.; ZHITNEV, N.F., inzh.; ZANIN, A.V., kand.tekhn.nauk; ZAUSHITSYN, V.Ye., kand.tekhn.nauk; ZVOLINSKIY, N.P.; ZEL'TSERMAN, I.M., kand.tekhn.nauk; KAIPOV, A.N., kand.tekhn.nauk; KASPAROVA, S.A., kand.sel'skokhoz.nauk; KOLOTUSHKINA, A.P., kand.ekon.nauk; KRUGLYAKOV, A.M., inzh.; KURNIKOV, I.I., inzh.; LAVRENT'YEV, L.N., inzh.; LEBEDEV, B.M., kand.tekhn.nauk; LEVITIN, Yu.I., inzh.; MAKHLIN, Ye.A., inzh.; NIKOLAYEV, G.S., inzh.; POLESHCHENKO, P.V., kand.tekhn.nauk; POLUNOCHEV, I.M., agr.; P'YANKOV, I.P., kand.sel'skokhoz.nauk; RABINOVICH, I.P., kand.tekhn.nauk; SOKOLOV, A.F., kand.sel'skokhoz.nauk; STISHKOVSKIY, A.A., inzh.; TURBIN, B.G., kand.tekhn.nauk; CHABAN, I.V., inzh.; CHAPKEVICH, A.A., kand.tekhn.nauk; CHERNOV, G.G., kand.tekhn.nauk; SHMELEV, B.M., kand. tekhn.nauk; KRASNICHENKO, A.V., inzh., red.; KLETSKIN, M.I., inzh., red.; MOLYUKOV, G.A., inzh., red.; BLAGOSKLONOVA, N.Yu., inzh., red.; UVAROVA, A.F., tekhn.red.

[Reference book for the designer of agricultural machinery in two volumes] Spravochnik konstruktora sel'skokhozialstvennykh mashin v dvukh tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.1. 1960. 655 p. (MIRA 13:11)
(Agricultural machinery--Design and construction)

193-19-3-3/9

AUTHORS: Krassov, I. M., Turbin, B. G. (Moscow)

TITLE: On a Possibility of Determining the Hydrodynamic Axial Force in a Slide Valve (Ob odnoy vozmozhnosti opredeleniya osevoy gidrodinamicheskoy sily na zolotnike)

PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol.19, Nr 3, pp.217-220 (USSR)

ABSTRACT: The authors here investigated the axial force which is not in equilibrium and which is produced in the outflow of the working fluid from a hydraulic amplifier with a slide valve. Its nature, magnitude and influence upon the work of the hydraulic amplifier as well as the possibility of a reduction of the axial force are investigated. In experiments with a two-cascade amplifier with a high power-amplification factor the possibility was found by means of a manometer fastened to the interthrottle-chamber. This possibility is caused by the principal peculiarities of the amplifier itself. The equation (4) for the axial force R is derived: $R = k(p - p') + c(x' - x)$. x - denotes the opening of the slide valve, x' - the repeated opening. p - the pressure in the chamber. $(x' - x)$ can be determined according to p and p'

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On a Possibility of Determining the Hydrodynamic Axial Force in a Slide Valve

by means of the static characteristic of the first amplifier-cascade (which is experimentally determined). The static characteristic is approximately expressed by

$$p = \frac{p_{static}}{55,7\varrho^2 + 1} \qquad (5)$$

p_{static} denotes the static pressure in the chamber of the needle, ϱ is the displacement of the needle with regard to the valve, calculated from that place where the needle completely shuts the valve-port. For the calculation of $x' - x$ equation (7) is derived. When, therefore p and p' are measured and when the spring flexibility c, the constant k are known - the magnitude of the axial force not being in equilibrium and acting upon the valve together with the frictional forces can be determined according to equations(4) and (7). The experiments did not show a sufficient accuracy. The given relations can only be considered approximate ones. It is important that the two-cascade-amplifier of this type (needle valve) can serve as measuring device for the axial force not being in equilibrium and that therefore no loading devices are necessary.

103-19-3-3/9

On a Possibility of Determining the Hydrodynamic Axial Force in a Slide Valve

There are 3 figures, 1 table, and 3 references which are Soviet.

SUBMITTED: July 9, 1957

Card 3/3

KRASSOV, I.M. (Moskva); RADOVSKIY, L.I. (Moskva); TURBIN, B.G. (Moskva)

Approximate determination of the jet reaction in a hydraulic amplifier of the nozzle-flap type. Avtom. i telem. 21 no.11: 1536-1538 N '60. (MIRA 13:11)

(Hydraulics)

KRASSOV, I.M. (Moskva); RADOVSKIY, L.I. (Moskva); TURBIN, B.G. (Moskva)

Effect of the characteristics of an electrical control element on the choice of parameters of a hydraulic amplifier. Avtom. i telem. 21 no. 12:1623-1626 D '60. (MIRA 14:1)
(Hydraulic control)

KRASSOV, I.M., kand.tekhn.nauk, dotsent; RADOVSKIY, L.I., inzh.; TURBIN, B.G., inzh.

Statics of a two-cascade hydraulic amplifier with nozzle-gates and valves. Vest. mash. 41 no.6:17-23 Je '61. (MIRA 14:6)
(Hydraulic machinery)

L 22568-66
ACC NR: AP6012996 SOURCE CODE: UR/0119/65/000/007/0007/0009

AUTHOR: Krassov, I. M. (Candidate of technical sciences); Radovskiy, L. I. (Engineer); Turbin, B. G. (Engineer)

33
B

ORG: none

TITLE: Dynamics and calculation of basic parameters of a two-stage hydraulic amplifier

SOURCE: Priborostroyeniye, no. 7, 1965, 7-9

TOPIC TAGS: hydraulic pressure amplifier, automatic pneumatic control

ABSTRACT: A description of the dynamics and basis for calculation of the main parameters with application of amplification coefficients as to pressure and fluid usage are presented for a widely used two-stage pneumonic automatic control amplifier. Equations are developed for the dynamics of the amplifier (demonstrating that the dynamic properties of the amplifier depend on the pressure and fluid flow amplification coefficients at the instant of initiation of movement of the system); the dependence of pressure and flow amplification coefficients on the parameters of the amplifier and on the load requirements. Orig. art. has: 2 figures and 26 formulas. [JPRS]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 003

Card 1/1 BK

ACC NR: AP6033520 SOURCE CODE: UR/0413/66/000/018/0159/0159

INVENTOR: Selivanov, M. P.; Turbin, B. G.; Levin, L. P.; Semenov, Yu. M.; Ugryumov, M. S.; Shvedunenko, L. A.; Sosul'nikov, G. B.

ORG: none

TITLE: Electromechanic signal converter. 25 Class 62, No. 186296

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 18, 1966, 159

TOPIC TAGS: electromechanic converter, electromechanic signal converter, electromagnetic device, servomechanism, electrohydraulic servomechanism, electropneumatic servomechanism

ABSTRACT: The proposed electromechanical signal converter is intended primarily for electrical hydraulic and pneumatic servomechanisms. It contains a housing, a permanent-magnet electromagnetic device, pole pieces with adjustment screws, a coil and a portable system unit which includes an elastic element, an armature terminal, an operating slide element, and a magnetically permeable bushing. To improve operational reliability, ensure the possibility of operating in

Card 1/2 UDC: 629.19 629.135/138 629.132

ACC NR: AP6033520

corrosive liquids, and improve the dynamic properties of the converter, the operating slide element is hermetically separated from the electromagnetic device and by an air gap from the magnetically permeable bushing. The slide element and the armature are a single unit, and the sealing element also serves as the elastic element of the portable system. The adjusting screws are fixed to the poles of the permanent magnet so as to make it possible to use the converter for servo-mechanising with various output characteristics and in order to ensure the smooth tuning of converter characteristics [Translation]

SUB CODE: 09/SUBM DATE: 22Jul64/

Card 2/2

TURBIN, B. G.

Agriculture

Agricultural machines and implements. Moskva, Gos. izd-vo sel'skokhoziaistvennoi lit-ry, 1948.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

TURBIN, B.G.

[Agricultural machinery; organization and technique of tractor operation]Sel'skokhoziaistvennye mashiny, organizatsiia i tekhnologiia proizvodstva traktornykh rabot. Leningrad, Gos. izd-vo sel'khoz.lit-ry, 1960. 543 p. (MIRA 15:9)
(Tractors)

TURBIN, B.G.

TURBIN, Boris Grigor'yevich; LUR'YE, A.B., red.; MOLODTSOVA, N.G., tekhn. red.

[Agricultural machinery] Sel'skokhoziaistvennye mashiny. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 364 p. (MIRA 11:2)
(Agricultural machinery)

N/5
723
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TURBIN, B. G.

MEKHANIZATSIYA I ELEKTRIFIKATSIYA SEL'SKOGO KHOZYZYSTVA (MECHANIZATION AND ELECTRIFICATION IN AGRICULTURE, BY) B. G. TURBIN, S. A. IOFINOV (I DR.) MOSKVA, SEL'KHOZGIZ, 19

v. ILLUS., DIAGRS., TABLES.

INCLUDES BIBLIOGRAPHIES.
LIB. HAS: 1952
1956

TURBIN, B. G.

Mechanization and electrification of agriculture.

2. ispr. i dop izd. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1952.

648 p.

(Uchebniki i uchebnye posobiia dlia srednikh sel'skc-khoziaistvennykh shkol po podgotovke predse-datelëi kolkhozov) (53-35370)

TURBIN, B. G.

4620. Sel'skikhzyaystvennyye maskiny. Per. s 3-Go Ispr. I dop. Izd. Kiyev, gossel'khoizdat USSR, 1954. 348 s. s Ill. 23 sm. 20,000 ekz. 7 R. V. Per-Na Ukr. Yaz. - (54-58282) 631.3

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

TURBIN, B. G.

6750. Iofinov, S. A., Turbin, B. G., i Tsirin, A. A. Mekhanizatsiya i elektrifikatsiya sel'skogo khozyaystva. Kiyev, Gossel'khozizdat USSR, 1954. 627 s. s. ill. 22 sm. (Uchebniki i ucheb. Posobiya dlya s.-kh. tekhnikumov). 12.000 ekz. 12 r. V per.--Bibliogr. s. 621.622. -- Na ukr. yaz.- (55-1989) 631.3 & (016.3)

SO: Knizhnaya Letopis' No. 6, 1955

TURBIN, B. G.

Agricultural machinery; textbook.

e., ispr. i dop. ezd. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1953

336 p. (54-32112)

S675.T835 1953

TURBIN, B. G.

5657. Iofinov, S. A., Turbin, B. G. i Tsyrin, A. A. Makhanizatsiya i elektrifikatsiya sel'skogo khozyaystva. (uchеb. posobiye dlya agr. tekhnikumov). Riga, latgosizdat, 1954, 608 s. s. ill. 23 sm. 5.000 ekz. 12 r 20 k. v per. — Bibliogr:s 597.—na latysh. yaz. (55.954) 631.3# (o16.3)

SO: Knizhnaya, Letopis, Vol. 1, 1955

TURBIN, B. G.

Sel'skokhoziaistvennye mashiny (Agricultural machines) 3-e, ispr. i dop. izd. Moskva, Sel'khozgiz, 1953. 336 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

TURBIN, B.G.

B.G. Turbin, Sel'skokhozyaystvennyye mashiny i orudiya [Agricultural Machines and Implements], third edition, revised and enlarged, Sel'khozgiz, 22 sheets.

Describes the construction of all principal agricultural machines used in agricultural production.

A manual for tractor operators and cotton-growing mechanizers.

SO: U-6472, 15 Nov 1954

TURBIN, B. G. ,ed.

Mekhanizatsiya i elektrifikatsiya sel'skogo khozyaystva (Mechanization and electrification in agriculture, by) B. G. Turbin, S. A. Iofinov (i dr) 2. Isprav. I dop. Izd., pod red. B. G. Turbina. Moskva, Sel'khozgiz, 1952. 648 p. illus., diagrs., tables.

ZHEVLAKOV, Pavel Kuz'mich, kand.tekhn.nauk; IOFINOV, Samuil Abramovich, prof., doktor tekhn.nauk; LUR'YE, Abram Bentsianovich, kand.tekhn.nauk; TURBIN, Boris Grigor'yevich, kand.tekhn.nauk; CHAPSKIY, O.U., red.; BARANOVA, L.G., tekhn.red.

[Farm mechanization and electrification; using machinery in plant growing and stockbreeding] Mekhanizatsiia i elektrifikatsiia sel'skogo khoziaistva; mekhanizatsiia proizvodstvennykh protsessov v rastenievodstve i zhivotnovodstve. [By] P.K.Zhevlakov i dr. Leningrad, Gos.izd-vo sel'khoz.lit-ry, 1960. 552 p. (MIRA 14:12)

(Farm mechanization)
(Electricity in agriculture)

MOSKALENKO, V.A.; TURBIN, B.I., doktor tekhn. nauk, prof., retsenzent; MAKLAKOV, N.A., inzh., red.; KOZLOV, A.P., red.izd-va; MAKAROVA, L.A., tekhn. red.

[Mechanisms] Mekhanizmy. Moskva, Mashgiz, 1963. 238 p. (MIRA 16:4)

(Mechanisms)

TURBIN, B.I., prof., doktor tekhn. nauk

Determining the rotating masses of agricultural machines. Trakt. i sel'khozmash. no.8:27-29 Ag '64. (MIRA 17:11)

1. MIISKhP.

TURBIN, B.I., prof.

Investigating the performance of grain combine during the starting period. Trudy MIMESKH 9:10-17 '59. (MIRA 13:11)
(Combines (Agricultural machinery))

TURBIN, B.I., prof.

Applying the moment of inertia in developing a method for the dynamic balancing of rapidly rotating working parts of feed preparing machinery. Trudy MIMESKH 9:18-26 '59. (MIRA 13:11)
(Agricultural machinery--Dynamics)

TURBIN, B.I., doktor tekhn.nauk, prof.

New method for power calculation of the mechanisms of agricultural machines. Trakt. i sel'khozmash. 32 no.12:17-19 D '62. (MIrA 16:3)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva.

(Agricultural machinery)

TURBIN, B.I., doktor tekhn.nauk, prof.

Applying d'Alembert-Lagrange equation to the dynamic design of flat plane. Izv. TSKhA no.4:228-234 '61. (MIRA 14:9)
(Mechanical movements)

TURBIN, B.I., prof.

Efficiency coefficient of toothed mechanisms. Trudy MIMESKH 9:36-40 '59. (MIRA 13:11)

(Gearing)

TURBIN, B.I., prof., doktor tekhn.nauk, prof.

Possibilites for balancing four-bar linkage with the help of counterweights. Trudy MIMESKH 8:46-49 '59. (MIRA 13:9)
(Balancing of machinery)

TURBIN, B.I., prof., doktor tekhn.nauk. prof.

Investigating vibration in the transmission system of grain combines. Trudy MIMESKH 8:50-55 '59. (MIRA 13:9)
(Combines (Agricultural machinery))

SOV/124-57-7-7583

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 17 (USSR)

AUTHOR: Turbin, B. I.

TITLE: On the Dynamic Stability of the Connecting Rods of the Cutters on Harvesting Machines (O dinamicheskoy ustoychivosti shatunov rezhushchikh apparatov zhatvennykh mashin)

PERIODICAL: Sb. tr. po zemled. mekhanike, 1956, Vol 3, pp 417-425

ABSTRACT: In this paper the author treats a connecting rod as a simple bar hinge-supported at the ends and loaded with periodic longitudinal and transverse forces. The transverse vibrations of such a bar are described by differential equations with periodic coefficients and periodic right-hand sides. For one specific case involving a periodic function the boundaries of the principal region of instability are determined by the well-known methods.

V. V. Bolotin

Card 1/1

TURBIN, B.I. professor.

Determining moments of inertia in agricultural machinery parts and units. Sel'khozmashina no.6:9-12 Je '57. (MLRA 10:7)

1. Moskovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.
(Moments of inertia) (Agricultural machinery)

TURBIN, Boris Ivanovich, prof.; LETNEV, B.Ya., red.; FEDOTOVA, A.F., tekhn.red.

[Analytic mechanics] Teoreticheskaia mekhanika. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1959. 374 p. (MIRA 13:1)
(Mechanics, Analytic)

TURBIN, B.I., prof.; MAKAROV, P.M., inzh.

Theory of the dynamometric testing of agricultural machinery with spring dynamographs. Trudy MIMESKH 9:173-195 '59. (MIRA 13:11)
(Agricultural machinery--Testing)
(Dynamometer)

TURBIN, B.I., prof., doktor tekhn.nauk

Balancing the masses of a single-cylinder machine. Trudy MIMESKH 4 no.1:18-24 '59. (MIRA 13:10)
(Balancing of machinery)

TURBIN, B.I., prof., doktor tekhn.nauk

Vibration of solid machine foundations. Trudy MIIZHKH 4 no.1:3-13 '59. (MIRA 13:10)

(Machinery--Foundations--Vibration)

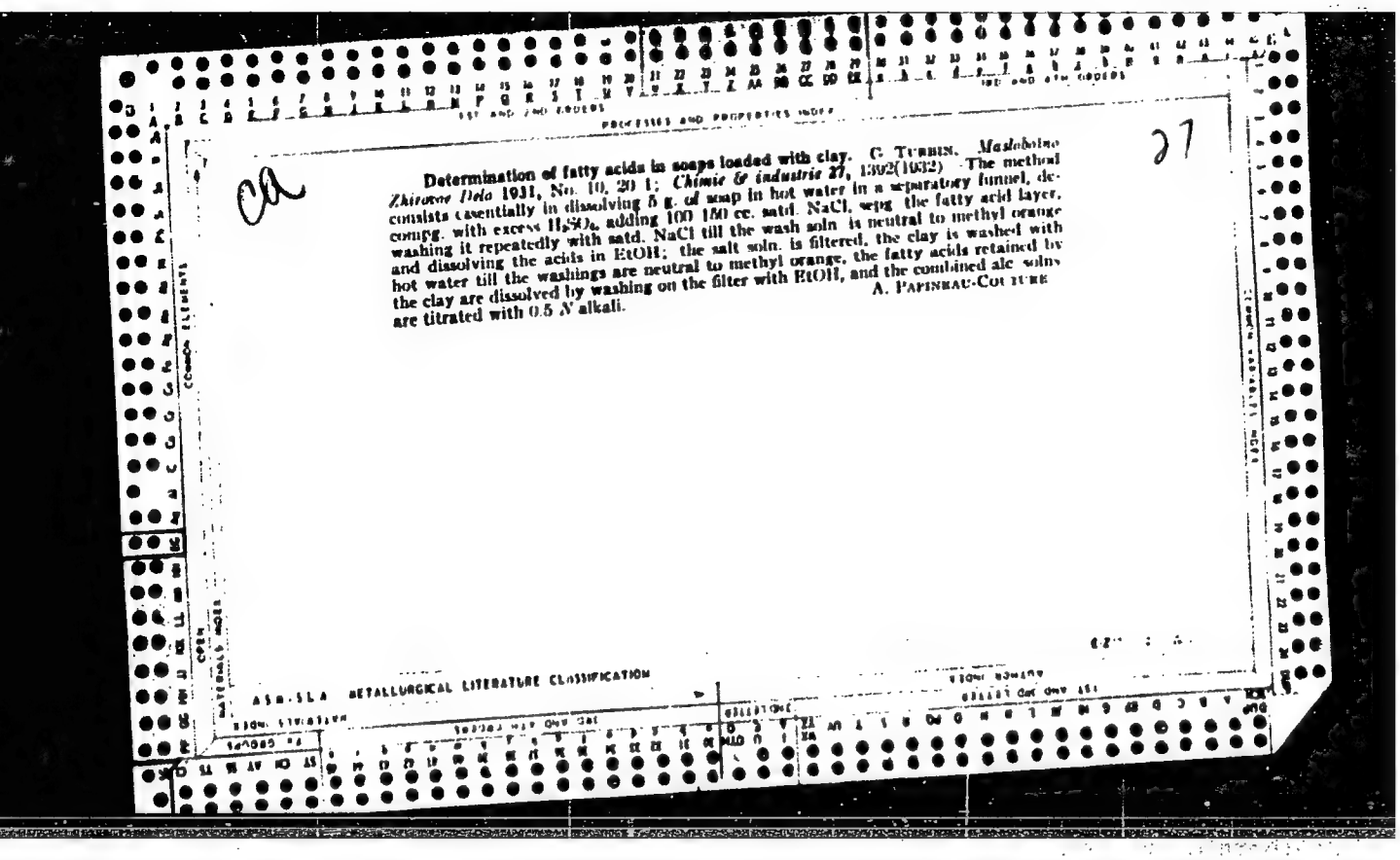
POPOV-CHERKASOV, Igor' Nikolayevich; TURBIN, Boris Sergeyevich; BUZYKIN, Valentin Il'ich; TOLYPINA, O.N., red.; KARLOVA, L.V., tekhn. red.

[Organization of wages for state farm workers in the U.S.S.R.] Organizatsiia zarabotnoi platy rabochikh v sovkhozakh SSSR. Moskva, Ekonomika, 1963. 230 p. (MIRA 17:1)

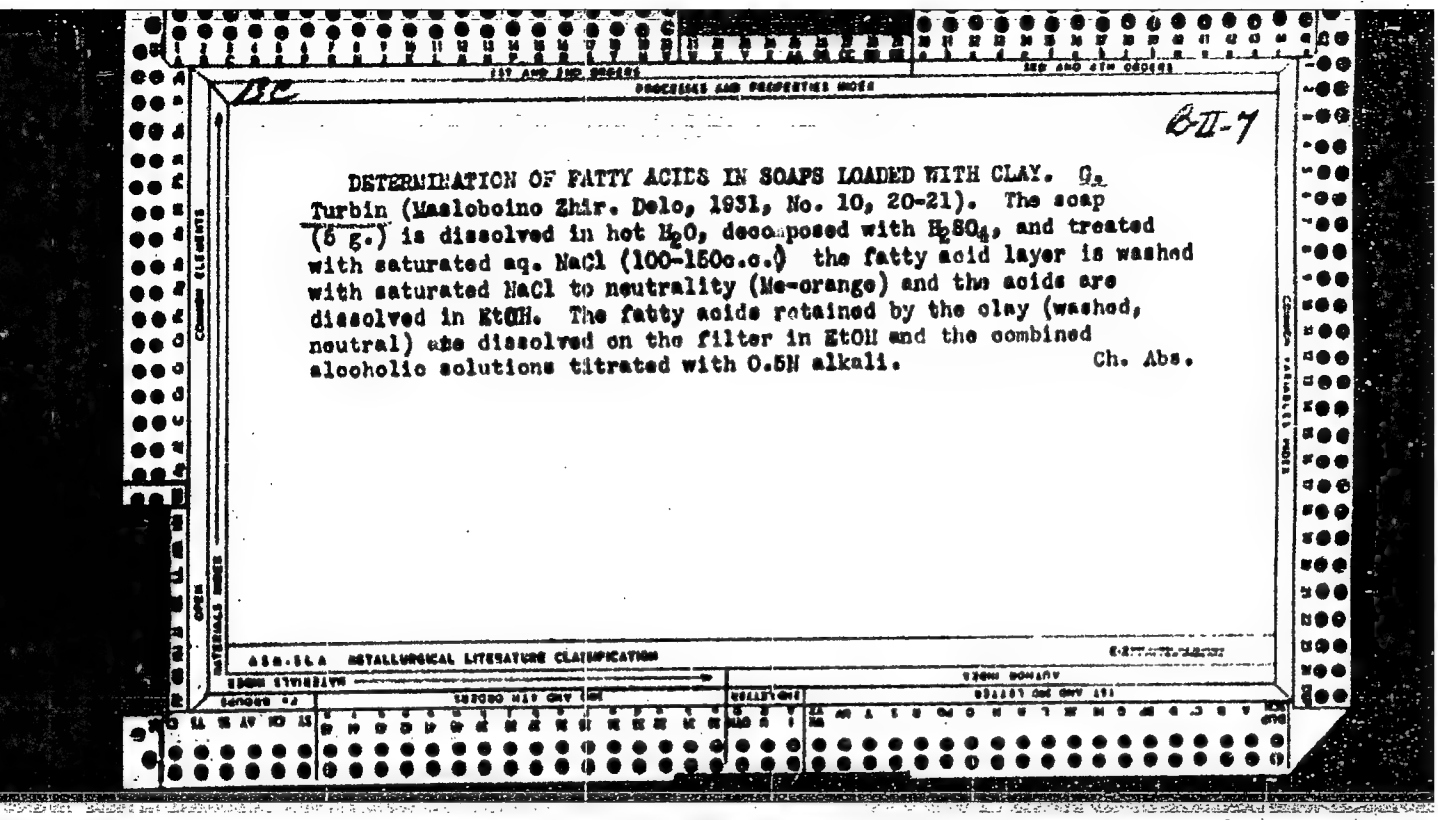
TURBIN, B.N.

Lambliosis of the bile ducts in surgical practice. Vest.khir. 75 no.4:78-82 My '55. (MLRA 8:8)

1. Iz kafedry obshchey khirurgii (zav.-prof. I.M.Tal'man) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(BILE DUCTS, diseases,
Giardia lamblia infect., surg.)
(GIARDIASIS,
bile ducts, surg.)



Determination of fatty acids in soaps loaded with clay. G. TURBIN. *Maslobino Zhirovoe Delo* **1931**, No. 10, 20-1; *Chimie & industrie* **27**, 1392(1932). The method consists essentially in dissolving 5 g. of soap in hot water in a separatory funnel, decompg. with excess H_2SO_4, adding 100-150 cc. satd. NaCl, sepg. the fatty acid layer, washing it repeatedly with satd. NaCl till the wash soln. is neutral to methyl orange and dissolving the acids in EtOH; the salt soln. is filtered, the clay is washed with hot water till the washings are neutral to methyl orange, the fatty acids retained by the clay are dissolved by washing on the filter with EtOH, and the combined alc. solns. are titrated with 0.5 *N* alkali.
A. PAPINEAU-COUTURE



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B-II-7

DETERMINATION OF FATTY ACIDS IN SOAPS LOADED WITH CLAY. G. Turbin (Maslobeino Zhir. Delo, 1931, No. 10, 20-21). The soap (5 g.) is dissolved in hot H_2O, decomposed with H_2SO_4, and treated with saturated aq. NaCl (100-150c.c.) the fatty acid layer is washed with saturated NaCl to neutrality (Me-orange) and the acids are dissolved in EtOH. The fatty acids retained by the clay (washed, neutral) are dissolved on the filter in EtOH and the combined alcoholic solutions titrated with 0.5N alkali. Ch. Abs.

S/115/60/000/05/04/034
B007/B011

AUTHORS: Volosov, S.S., Turbin, G. B.

TITLE: Automatic Warranty of the Measuring Accuracy in Centerless Grinding

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 5, pp. 7-9

TEXT: Problems related with the development of an adjustment device for a centerless grinder (for grinding conical rollers of roller bearings) are investigated here. Unless there was an adjustment device compensating the influence of occasional machining errors, the spread of the actual occasional machining errors was determined before constructing the apparatus. An examination was first made of the accuracy of the process of centerless grinding of conical rollers. The diagrams obtained, which are given in Fig. 1, show that without considering gross machining errors, the use of adjustment devices in centerless grinding of conical rollers is well possible. The diagrams also show that modifications in roller diameters occur so slowly that one does not have to control all of the rollers coming from the machine. On the other hand, one curve shows that

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Automatic Warranty of the Measuring Accuracy in Centerless Grinding

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B007/B011

gross machining errors occur in centerless grinding of conical rollers. For this reason, it is more expedient to effect an adjustment according to the central line, and so it was done in the present case. The scheme of the adjustment device is shown in Fig. 2 and described. Adjustment is done by the successive control of parts. The measuring system itself is based on the construction of the measuring position in the automatic sorting machine for conical rollers. The measurement is done with the aid of a hard-alloy ring. The rollers are introduced into this ring by means of a pusher. The position of the pusher is a function of the dimension of the roller to be controlled. The pusher is connected with a feeler. The contact of this feeler is open or closed depending on the roller diameter. The electric circuit secures the adjustment according to the central line and consists of three twin triodes. The mode of operation of the system is briefly described. There are 2 figures and 1 Soviet reference.

Card 2/2

30317
S/103/62/023/004/011/011
D299/D301

26.2190

AUTHORS: Krassov, I.M., Radovskiy, L.I., and Turbin, G.B.
(Moscow)

TITLE: On the sensitivity of a nozzle-flap hydraulic amplifier

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 4, 1962, 543 - 545

TEXT: The sensitivity of nozzle-flap hydraulic amplifiers, under various operating conditions, is considered. Basic rules are given for selection and calculation of parameters, so as to obtain maximum sensitivity under set conditions. For normal operating conditions, the amplifier sensitivity is expressed by the derivative

$$\left(\frac{\partial p_1}{\partial \varphi}\right)_{\varphi=0} = K_p, \qquad (2)$$

called the pressure gain coefficient; p_1 is the working pressure of the liquid in the inter-valve chamber, and φ - the angle of rotation of the flap. K_p is differently determined for various operat-

Card 1/3

ing conditions, and has different maximum numerical values. Three types of most commonly met operating conditions are considered. A table lists the formulas for K_p (for the 3 types of operating conditions), its maximum value, the conductivity ratio δ and the principal parameters of the amplifier. The formulas for K_p, listed in the table, are analyzed and the relative merits of each type of operating conditions are ascertained. Analysis of the formulas for K_p (with type 3 operating conditions; the initial gap h_0 between the nozzle and flap is given, as well as the discharge Q_0 of the working liquid through the valve with variable passage), permits determining the limiting values of δ and of the pressure p_0 on the basis of actual conditions. Thus, with $\delta = 2$, K_p is 20 % below its maximum value, whereas with $\delta = 3$, only by 10 %. Hence, in designing nozzle-flap amplifiers, it is not necessary to exceed the value $\delta = 3$. The corresponding limiting value of $p_0 = 10p_{10_3}$ (where p_{10_3} is determined by the formula $\delta = \sqrt{p_0/p_{10_3}} - 1$). The above formulas permit designing amplifiers with maximum sensitivity under given

On the sensitivity of a nozzle-flap ... S/103/62/023/004/011/011
D299/D301

conditions. There are 1 figure, 1 table and 1 Soviet-bloc reference.

SUBMITTED: November 25, 1961

4

Card 3/3

VDOVINA, L.; NAUMOV, G.; FILIMONOV, P.; TURBIN, I.

Readers suggest. Fin. SSSR 37 no.1:84 Ja '63.

(MIRA 16:2)

1. Nachal'nik byudzhetnogo otdela Vinnitskogo oblastnogo finansovogo otdela (for Vdovina). 2. TSentral'nyy rayonnyy finansovyy otdel Voronezha (for Naumov, Filimonov, Turbin).

(Education—Finance) (Taxation)

MALYSHEV, K. A., TURBIN, I. B.

The Effect of the Rate of Heating and of Preliminary Heat-Treatment on the Kinetics of the Growth of Austenite Grain in Carbon Steel. Trudy UFAN 10, 215, 1941.

GORINOV, A.V.,, prof.; KANTOR, I.I., dots.; KONDRATCHENKO, A.P., dots.; LOGINOV, V.N., assistent; TURBIN, I.V., ispolnyayushchiy obyazannosti dotsenta; SOLOV'YEVA, T.P., red.; KLEYMAN, L.G., tekhn. red.

[Designing a new railroad section with electric and diesel traction; handbook for the disigning of a school project] Proektirovanie uchastka novoi zheleznoi dorogi s elektrovoznoi i teplovoznoi tiagoi; posobie dlia kursovogo proektirovaniia. By A.V.Gorinov i dr. Moskva, M-vo putei soobshcheniia. Glav. upr. ucheb. zavedeniiami, 1960. 109 p. (MIRA 14:11)

1. Moscow. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta. 2. Zaveduyushchiy kafedroy "Izyskaniya i proyektirovaniye zheleznykh dorog" Moskovskogo instituta inzhenerov zheleznodorozhnogo transporta i Chlen-korrespondent AN SSSR (for Gorinov).
(Railroad engineering)

IOANNISYAN, A.I., prof.; GORINOV, A.V., prof.; AKIMOV, V.I., kand.tekhn. nauk; KANTOR, I.I., kand.tekhn.nauk; KONDRATCHENKO, A.P., kand. tekhn.nauk; SAVCHENKO, I.Ye., kand.tekhn.nauk; TURBIN, I.V., kand. tekhn.nauk; VLASOV, D.I., inzh., red.; KHITROV, P.A., tekhn.red.

[Problems in the planning of railroads with electric and diesel traction] Voprosy proektirovaniia zheleznykh dorog s elektricheskoi i teplovoznoi tiagoi. Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 255 p. (MIRA 13:3)

1. Chlen-korrespondent AN SSSR (for Gorinov).
(Railroad engineering)

GORINOV, Aleksandr Vasil'yevich, prof. Prinimali uchastiye: TURBIN, I.V., dotsent, kand.tekhn.nauk; KANTOR, I.I., dotsent, kand. tekhn.nauk; KONDRATCHENKO, A.P., dotsent, kand.tekhn.nauk; YEVREYSKOV, V.Ye., prof., retsenzent; LEBEDEV, A.I., dotsent, retsenzent; VOZNESENSKIY, G.D., dotsent, retsenzent; ISAKOV, L.M., dotsent, retsenzent; DZHGAMADZE, O.V., dotsent, retsenzent; CHERNYSHEV, G.P., inzh., retsenzent; MYSHKIN, G.N., inzh., retsenzent; ZAYTSEV, I.M., inzh., retsenzent; OZERETSKOVSKIY, V.P., inzh., retsenzent; ZARETSKIY, A.O., inzh., retsenzent; BUGROV, B.A., inzh., retsenzent; KOSTIN, I.I., prof., red.; BOBROVA, Ye.N., tekhn.red.

[Railroad surveying and designing] Izyskaniia i proektirovanie zheleznykh dorog. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia. Vol.1. Izd.4., perer. 1961. 336 p. (MIRA 14:4)

1. Chlen-korrespondent Akademii nauk SSSR (for Gorinov). 2. Kafedra "Proyektirovaniye i postroyka zheleznykh dorog" Novosibirskogo instituta inzhenerov zheleznodorozhnogo transporta (for Yevreyskov, Lebedev, Voznesenskiy, Isakov, Dzhgamadze). 3. Gosudarstvennyy proyektno-izyskatel'skiy institut "Gipropromtransstroy" (for Chernyshev, Myshkin, Zaytsev, Ozeretskovskiy, Zaretskiy, Bugrov).

(Railroad engineering)

TURBIN, I.V., kand.tekhn.nauk

Planning longitudinal profiles of curved alignments. Transp. stroi. 9 no.8:47 Ag '59. (MIRA 13:1)
(Railroad engineering)

TURBIN, I.V., Cand Tech Sci -- (diss) " Problems ~~on the~~ of selecting ~~selection of~~ the route and the planning of the run ~~for~~ of heavily burdened lines (under ~~with~~ locomotive traction)". Mos,1958. 12 pp (Mos Order of Lenin and Order of Labor Red Banner Inst of Engineers of Railroad Transport im I.V. Stalin). 110 copies.

(KL,12-58, 99)

TURBIN, I.V.

Evaluating alternate routes for planned railroads where diesel traction is to be used. Trudy MIIT no.94:177-188 '57. (MIRA 11:5)
(Railroad engineering)

GORINOV, A.V., prof.; TURBIN, I.V., kand. tekhn. nauk, dotsent

Expediency of combining diesel and a.c. electric traction in the planning of new railroads. Trudy MIIT no.158:4-16 '62. (MIRA 16:6)

1. Chlen-korrespondent AN SSSR (for Gorinov).
(Railroad engineering)
(Railroads--Cost of construction)

GORINOV, A.V., prof.; TURBIN, I.V., kand. tekhn. nauk, dotsent

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